

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Steven M. Madey and Michael Bottlang  
Serial No.: 10/617,544 Examiner: not known  
Filing Date: July 10, 2003 Group Art Unit: not known  
Title: LOAD DIVERSION METHOD AND APPARATUS FOR HEAD PROTECTIVE DEVICES

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97 (b); or  
(Within three months of filing national application; or date of entry of International application;  
or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97 (e), or  
☐ a \$180 fee under 37 CFR 1.17 (p); or  
(After mailing of first Office Action, but prior to Notice of Allowance or Final Office Action)
- ☐ under 37 CFR 1.97 (d) together with:  
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☒ Applicant(s) submit herewith Form PTO 1449- Information Disclosure Citation together with  
copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s)  
may be material to the examination of this application and for which there may be a duty to disclose in accordance  
with 37 CFR 1.56.

It is requested that the information disclosed herein be made of record in this application.

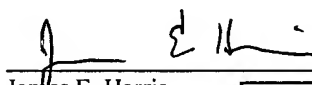
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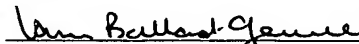
Respectfully submitted,

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**PATENT APPLICATION**

Atty. Docket No.: 5827-002

Serial No. 10/617,544

Applicant: Steven M. Madey and Michael Bottlang

Filing Date: July 10, 2003

Group: not known

**INFORMATION DISCLOSURE CITATION  
FORM PTO-1449 (Modified)****U.S. PATENT DOCUMENTS**

Exam Init	Ref	Document Number	Issue Date	Name	Class	Sub Class
		3,946,441	Mar. 30, 1976	Johnson		
		4,825,476	May 2, 1989	Andrews		
		5,123,408	Jun. 23, 1992	Gaines		
		5,581,820	Dec. 10, 1996	Cartwright et al.		
		5,732,414	Mar. 31, 1998	Monica		
		5,815,846	Oct. 6, 1998	Calonge		
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		2001/0011388	Aug. 9, 2001	Nelson et al.		
		2002/0004947	Jan. 17, 2002	Bacchiega		
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		2002/0017805	Feb. 14, 2002	Carroll, III et al.		

**FOREIGN PATENT DOCUMENTS**

Exam Init	Ref	Document Number	Publication Date	Country	Name
		WO 03/005844	Jan. 23, 2003	WO	Phillips
		WO 96/14768	May 23, 1996	WO	Phillips

**OTHER DOCUMENTS**

Exam Init	Ref	Author, Title, Date, Pertinent Pages, Etc.
		Daniel L.A. Camacho, Robert W. Nightingale, Barry S. Myers, <i>The Influence of Surface Padding Properties on Head and Neck Injury Risk</i> , Journal of Biomechanical Engineering, October 201, Vol. 123, pages 432-439
		Daniel L.A. Camacho, Roger W. Nightingale, Barry S. Myers, <i>Surface Friction in Near-Vertex Head and Neck Impact Increases Risk of Injury</i> , Journal of Biomechanics 32 (1999) pages 293-301
		A. Gilchrist, N. J. Mills, <i>Protection of the Side of the Head</i> Accident. Analysis. And Prevention, Vol. 28 No. 4, (1996), pages 525-535
		Roger W. Nightingale, PhD, William J. Richardson MD, Barry S. Myers MD, PhD, <i>The Effects of Padded Surfaces on the Risk for Cervical Spine Injury</i> Spine, Vol. 22(20) October 1997, pages 2380-2387
		Alan L. Browne, Thomas L. Wood, <i>Reducing Facial Lacerations in Head-Windshield Impacts with Windshield Lubricants</i> , Proceedings of STAPP Car Crash Conference, 1985, pages 205-220
		<i>Bike Helmets may not Prevent Serious Brain Injuries, Study Finds</i> Trauma Watch, publication of American Trauma Society, Jan. 20, 2003, page 8

Examiner: \_\_\_\_\_

Date Considered: \_\_\_\_\_